

ABSTRACT

A signal deformation monitor that corrects for bias caused by receiver front end signal deformation is disclosed. The signal deformation monitor includes a correlator that determines a plurality of correlation measurements along a correlation curve. The correlation measurements are transformed by a correlation transformation. The correlation transformation subtracts the mean over all tracked satellites from each of the correlation measurements calculated by the correlator. The transformed correlation measurements are independent of the front end signal deformation, resulting in a signal deformation monitor that will more accurately detect satellite signal deformation.